

Art Unit: 2675

CLMPTO

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¹ ~~1.~~ (Amended) A method comprising:

updating a display of a cursor within a graphical user interface using sensor information received from an interface device, the sensor information representing motion of at least a portion of the interface device;

detecting a speed of the cursor when the cursor engages the graphical target; and

outputting a tactile sensation based upon the speed of the cursor when the cursor engages the graphical target.

² ~~2.~~ (Amended) The method of claim ¹ ~~1~~ wherein the outputting a tactile sensation occurs only if the detected speed of engagement is below a predetermined threshold speed, a tactile sensation will be output to the user.

³ ~~3.~~ (Amended) The method of claim ² ~~2~~ wherein the detected speed is compared with a plurality of threshold speeds, the plurality of threshold speeds being associated with a plurality of tactile sensations, the output tactile sensation being from the plurality of tactile sensations.

⁴ ~~4.~~ (Amended) The method of claim ³ ~~3~~ wherein the detecting further includes determining when the cursor has moved to or past a trigger location positioned in the graphical target.

⁵ ~~5.~~ (Amended) The method of claim ⁴ ~~4~~ further comprising selecting a function within the graphical user interface when the cursor has moved to or past the trigger location.

⁶ ~~6.~~ (Amended) The method of claim ⁵ ~~5~~ wherein the selecting only is performed when the speed of the cursor is below a predetermined threshold speed.

⁷ ~~7.~~ (Amended) The method of claim ⁶ ~~6~~ wherein the graphical target is a menu element displayed in the graphical environment.

⁸ ~~8.~~ (Amended) The method of claim ⁷ ~~7~~ wherein the graphical target is a graphical button.

⁹ ~~9.~~ (Amended) The method of claim ⁸ ~~8~~ further comprising changing at least one displayed characteristic of the graphical target to indicate that the function has been selected.

¹⁰ ~~10.~~ (Amended) The method of claim ⁹ ~~9~~ wherein the tactile sensation includes a force on the interface device.

¹¹ ~~11.~~ (Amended) The method of claim ¹⁰ ~~10~~ wherein the tactile sensation includes one or more of a vibration, a texture, and a jolt.

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~~13~~ ¹² (Amended) A method comprising:

displaying a cursor within a graphical user interface using sensor information received from an interface device, the sensor information being associated with motion of at least a portion of the interface device;

outputting a tactile feedback command to be provided to the interface device to cause a tactile sensation when the cursor engages the graphical target;

detecting whether the cursor has moved to or past a trigger location in the graphical target;

selecting a function within a graphical user interface when the cursor has moved to or past the trigger location; and

modifying the tactile sensation, the modifying being associated with the selecting of the function.

~~13~~ ¹² (Amended) The method of claim ~~56~~ ¹² wherein the cursor is determined to have moved to the trigger location when the cursor has moved a predetermined distance past a point of engagement.

~~14~~ ¹² (Amended) The method of claim ~~56~~ ¹² wherein the graphical target is modified visually when the cursor reaches the trigger location.

~~15~~ ¹² (Amended) The method of claim ~~56~~ ¹² wherein the graphical target is a menu element displayed in the graphical user interface.

~~16~~ ¹² (Amended) The method of claim ~~56~~ ¹² wherein the graphical target is a graphical button displayed in the graphical user interface.

~~17~~ ¹² (Amended) The method of claim ~~56~~ ¹² further comprising:
changing at least one displayed characteristic of the graphical target to indicate that the function has been selected.

~~18~~ ¹² (Amended) The method of claim ~~56~~ ¹² wherein the output tactile sensation includes a force on the interface device.

~~19~~ ¹² (Amended) The method of claim ~~56~~ ¹² wherein the output tactile sensation includes at least one of a vibration, a texture, and a jolt.

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~~AB~~ (Amended) Processor-executable code comprising:

code to update a display of a cursor within a graphical user interface using sensor information received from an interface device, the sensor information being associated with motion of at least a portion of the interface device;

code to output a tactile sensation when the cursor engages the graphical target;

code to detect whether the cursor has moved to or past a trigger location in the graphical target;

code to select a function within the graphical user interface when the cursor has moved to or past the trigger location; and

code to modify the tactile sensation in response to the function being selected.

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